PUBLIC WORKS DEFENSE INFRASTRUCTURE SECTOR

Public Works Defense Infrastructure Sector Support for the DoD Critical Infrastructure Program

September 13, 2016

Briefing Classification:

U N C L A S S I F I E D

Purpose

- **Provide an overview of the United States Army Corps of Engineers as the LCA for the Public Works Defense Infrastructure Sector and the Public Works DI Sector's roles and responsibilities as they apply for the DCIP.**

US Army Corps of Engineers®

USACE Vision Statement

The world's premier public engineering organization responding to our Nation's needs in peace and war

A full spectrum engineer force of high quality, dedicated soldiers and civilians:

- **Trained and Ready**
- **Vital Part of The Army**
- **Dedicated to Public Service**
- **Army Values-Based**

US Army Corps of Engineers®

USACE Operations

oD Integration Support

One Corps Serving The Army and The Nation

PEACE
Spectrum of USACE Operations
WAR
WATER RESOURCES
ENVIRONMENT
NFRASTRUCTURE
DISASTERS
WARFIGHTING
Creating synergy between water resource developmen t and
Restoring, managing and and enhancing ecosystem s, local and
Building and sustaining the critical facilities for military installations
Respondin g to local, national and global disasters
Providing full spectrum engineeri ng and contingen cy

USACE Operations

oD Integration Support

Military Program

- MILCON: Army and AF
- Base operations
- Environmental restoration
- Geospatial Engineering

Research & Development

- Military engineering
- Terrain & Geospatial
- Installations & Environment
- Water Resources

Real Estate

- Acquire, manage & dispose
- DOD recruiting facilities
- Contingency

Interagency

- DOD, Federa
- State & Loca
- Internationa

Civil Works

- Navigation, Hydropower
- Flood control, Shore Protection
- Disaster response
- Environmental restoration
- Water Supply
- Regulatory
- Recreation

Plus: *Homeland Security*

USACE -- MACOM Overview

DoD Integration Support

(Civil Works Boundaries)

Districts outside the United States:
Europe (Germany)
Far East (Korea)
Japan

USACE Support to The Army and The Nation

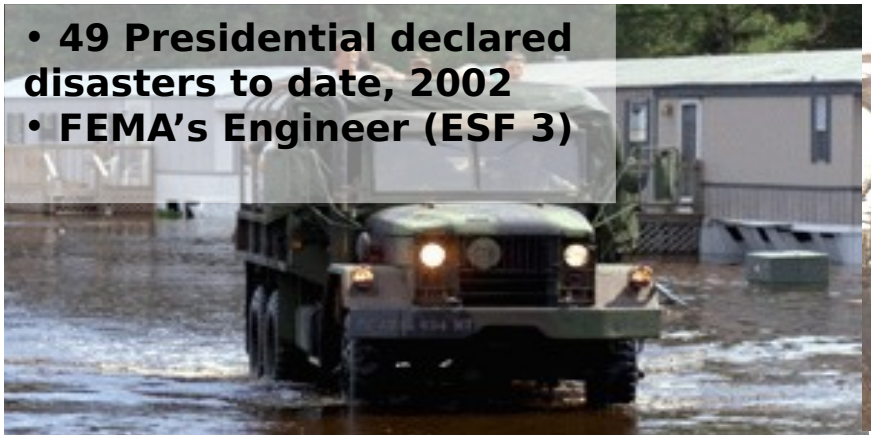
DoD Integration Support

(Leveraging Civil

- Strategic deployment
- 299 commercial harbors

Development & Management of Water Resources Infrastructure

Protection, Restoration & Management of the Environment



- 49 Presidential declared disasters to date, 2002
- FEMA's Engineer (ESF 3)

Disaster Response & Recovery

- Infrastructure Assessment/Protection
- Tactical hydrology
- Bridge Assessments

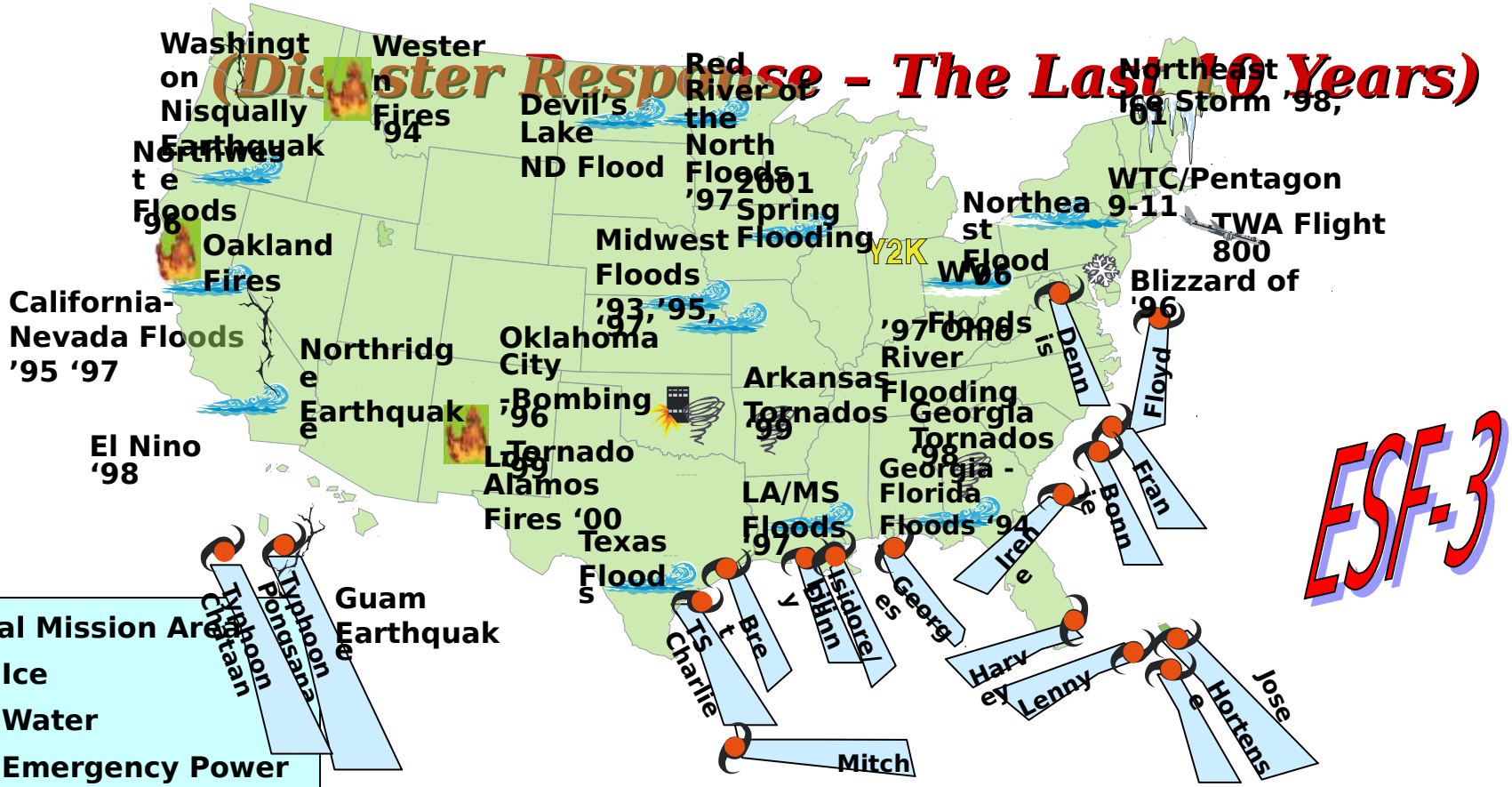
Engineering & Technical Services

UNCLASSIFIED

USACE Support to The Army and The Nation

DoD Integration Support

(Disaster Response – The Last 10 Years)



- Typical Mission Area
  - Ice
  - Water
  - Emergency Power
  - Temporary Roofing
  - Temporary Housing
  - Technical Assistance

DS to FEMA

13 major disasters post 9/11 totaling $241M

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USACE Support to The Army and The Nation

oD Integration Support

(Major Military Programs)

MILCON

- Army and Air Force Working and Living Facilities
- Ground-Based Midcourse Defense (Formerly National Missile Defense)
- Army Transformation
- Chemical Demilitarization
- Foreign Military Sales
- DoD Medical Facilities

INTERAGENCY & INTERNATIONAL SUPPORT

- Afghanistan Reconstruction
- Cooperative Threat Reduction
- World Water Forum
- Superfund (EPA)
- Infrastructure Protection

ENVIRONMENTAL

- Base Realignment & Closure
- Formerly Used Defense Sites (FUDS)
- Formerly Utilized Sites Remedial Action Program (FUSRAP)

INSTALLATION SUPPORT

- Residential Communities Initiative
- Strategic Sourcing
- IMA Support
- Fort Future

Plus: Contingency Support

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USACE CIP Support to the Nation

oD Integration Support

TISP
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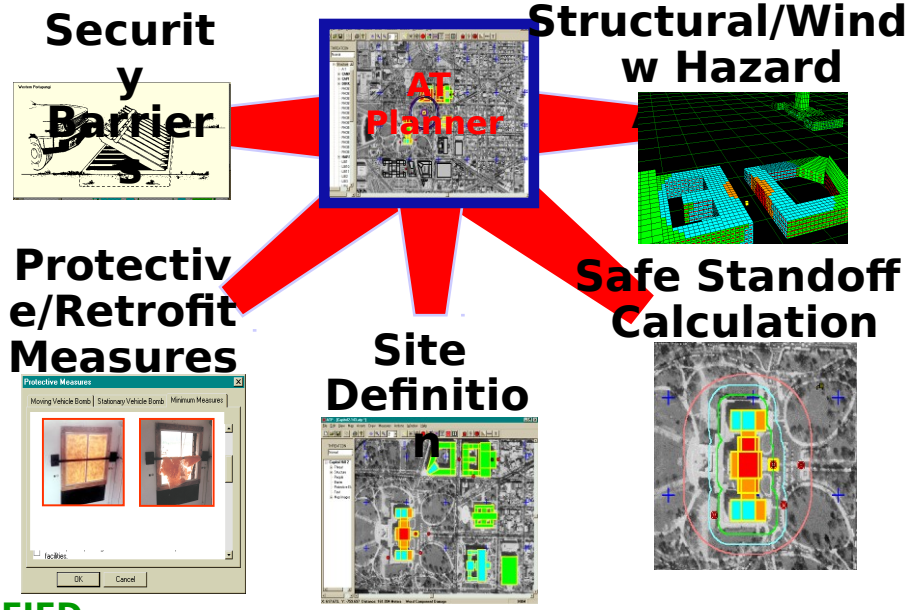
Leading Edge AT/FP Design Centers of Expertise



Huntsville & TAC

Public Works DI Sector (Background)

- The DoD Critical Infrastructure Protection Plan (1998) tasked USACE to be the Lead Component Agency (LCA) for the Public Works Defense Infrastructure (DI).
- USACE has been active as the Public Works DI LCA ever since.
- DoD Directive 3020.xx (Coord.), “Defense Critical Infrastructure” tasked OUSD (AT&L) to oversee Defense Sector Lead Agencies (DIB, Logistics, Public Works, Transportation) with Agencies as “Acting” Leads.
- DoD Directive 3020.ff (Final), assigns and designates USACE as the Defense Sector Lead Agency for Public Works.

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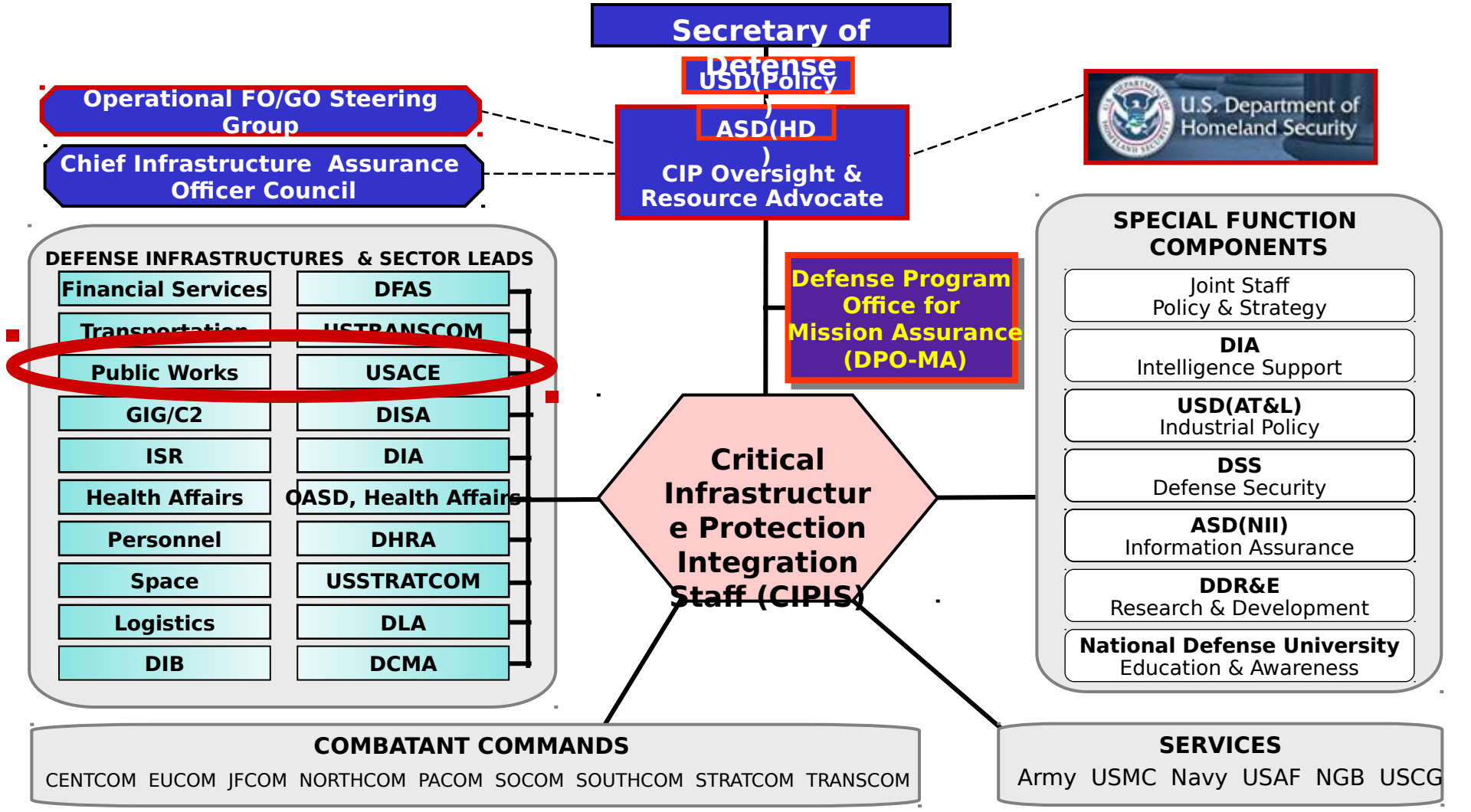
The DoD CIP Organization

DEFENSE PROGRAM OFFICE FOR MISSION ASSURANCE



OSD Relationships (DoDD 3020.ff)

CIP Principal Staff Assistant	CIP "Sector" Principal Staff Assistant	CIP "Sector" Lead
OASD(HD)	OUSD(Policy) -- *Space*	STRATCOM
	OUSD(AT&L) -- *DIB*	DCMA
	-- *Logistics*	DLA
	-- *Transportation*	TRANSCOM
	-- *Public Works*	USACE
	OUSD(I) -- *ISR*	DIA
	OUSD(C) -- *Finance*	DFAS
	OUSD(P&R) -- *Health Affairs*	OASD(HA)
	-- *Personnel*	DHRA
	OASD(NII) -- *GIG*	DISA

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Responsibilities of the Defense Infrastructure Sector Leads

Defense Critical Infrastructure Sector Leads shall:

- **Assign a Senior Executive/Flag Officer to serve as the Defense Sector Critical Infrastructure Assurance Officer (CIAO),** and identify an office of primary responsibility for matters pertaining to the identification, prioritization, and protection of Defense Critical Infrastructure. **Establish, resource, and execute an organizational program supporting the DCIP**.

- **Establish and maintain a characterization of the Defense Sector's support functions, systems, assets, and dependencies** as they relate to operational capabilities and assets identified by the DoD Components.

- **Collaborate with other Defense Sector Lead Agencies and DoD Components to identify cross-sector interdependencies**.

- **Plan and coordinate with all DoD Components that own or operate elements of the Defense Sector** to identify, analyze, and assess the Defense Sector's critical assets and their mission impacts.

The Public Works DI Sector (Definition)

“The DoD, government and private sector worldwide network, including the real property inventories (buildings, roads, bridges, real estate, etc.) that manages the support, generation, production, and transport of commodities (e.g., electric power, oil and natural gas, water and sewer, emergency services, etc.) for and to DoD users.”

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The Public Works DI Sector

Public Works Sector Functions

- Provide and Maintain Utilities
- Provide and Maintain Real Property
- Provide Emergency Services

Public Works Asset Owners

- Services: Army/Navy/Marine/Air Force (Installations) **(Title 10)**
- National Guard **(Title 32)**
- Civil Works; U.S. Army Corps of Engineers (Inland Waterways, locks and dams and lakes) **(Stafford Act, PL 84-99)**
- Commercial Infrastructure

***Objective:* Ensure Infrastructure Assurance is integrated into Real Property life cycle management**

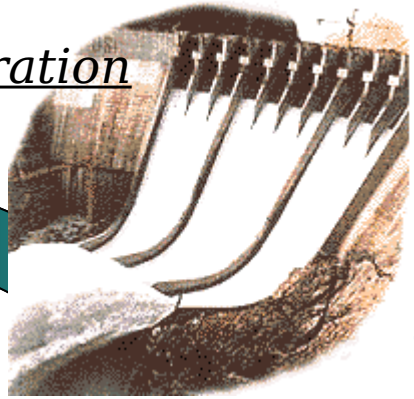
Assuring Availability of Vital Public Works Assets

DoD Integration Support

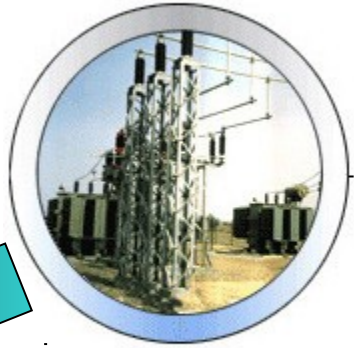
Generation - Production - Distribution

Storage

Treatment



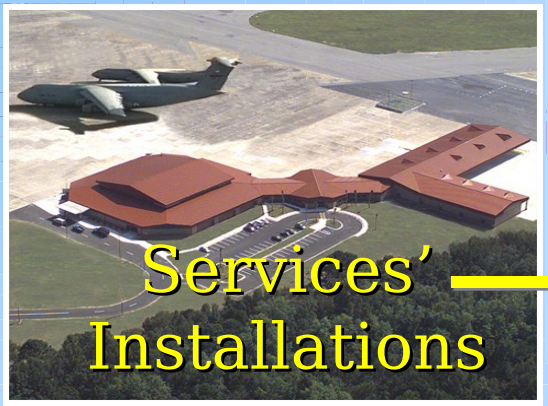
Power Generation



Sub-Station Distribution

User

Drinking



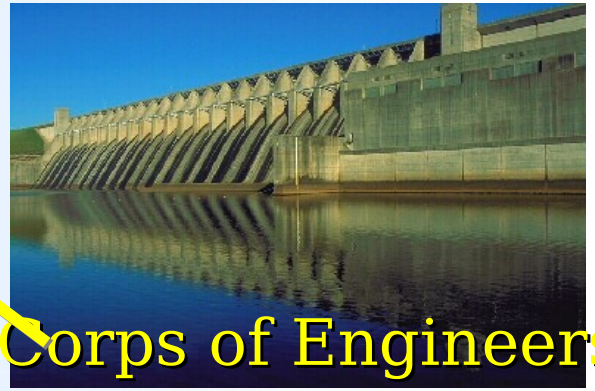
Public Works Assets

Governmental

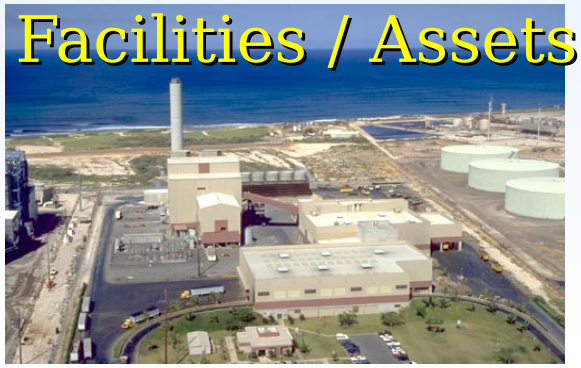
Facilities & Assets

and Other Assets

Foreign and US



Corps of Engineers'



Who Knows the Answers?

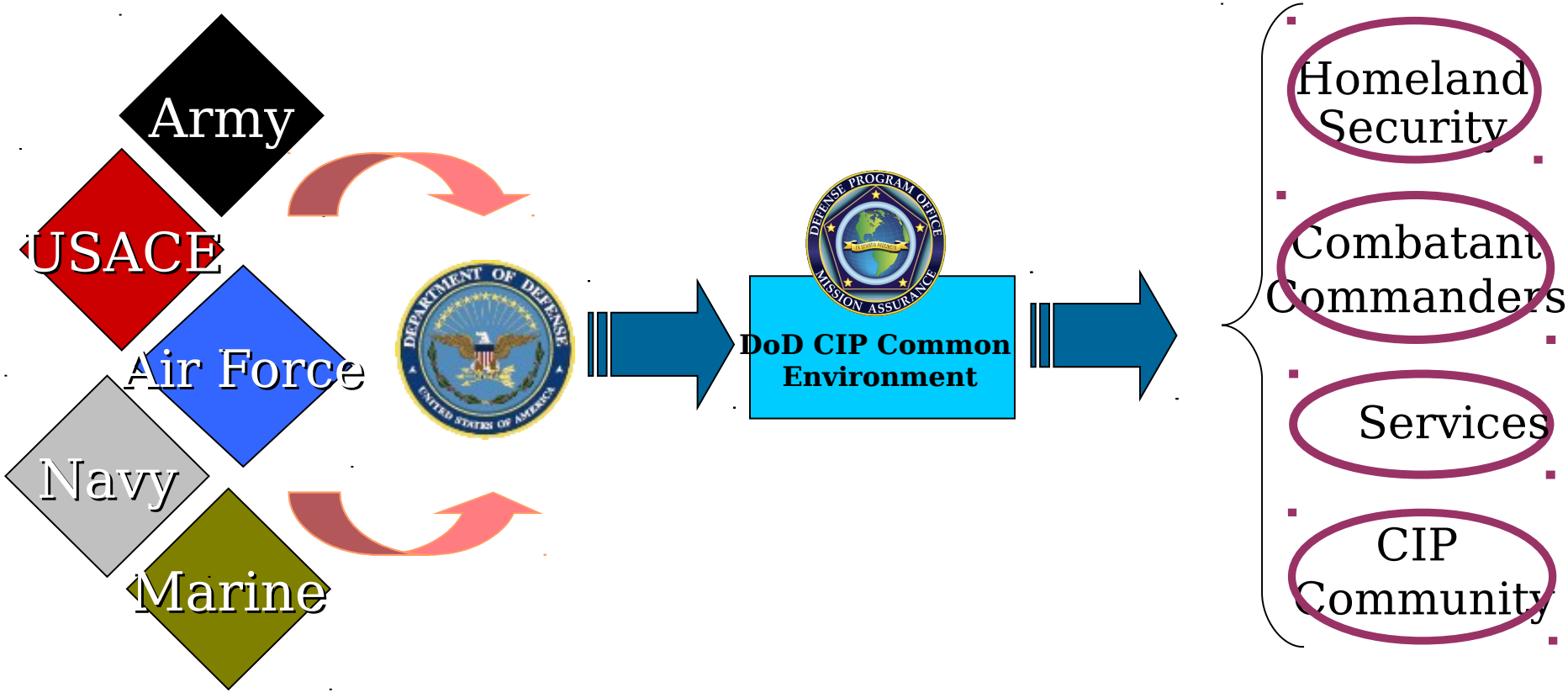
EXAMPLE

ANALYSIS ACTIVITIES

	ORGANIZATIONS					
	Combatant Command	Component Commands	Defense Infrastructure Sector	DPO-MA	Services	Installations
Mission Requirements	X	X		X	X	
Infrastructure Dependencies	X	X	X	X	X	X
Defense Infrastructures	X	X	X	X	X	X
Commercial Infrastructure	X		X	X		X
Installation Assets and their Dependencies		X	X	X	X	X

- *No single organization knows all the requirements – or answ*
- *Collaboration and Consistency is required.*

Consistent Perspective Throughout DCIP Phases



DoD's CIP Phases:

Analysis & Assessment | Remediation | Monitoring & Reporting | Mitigation | Response | Reconstitution

GIS - Common 'Canvas' for Display Across the CIP Activities

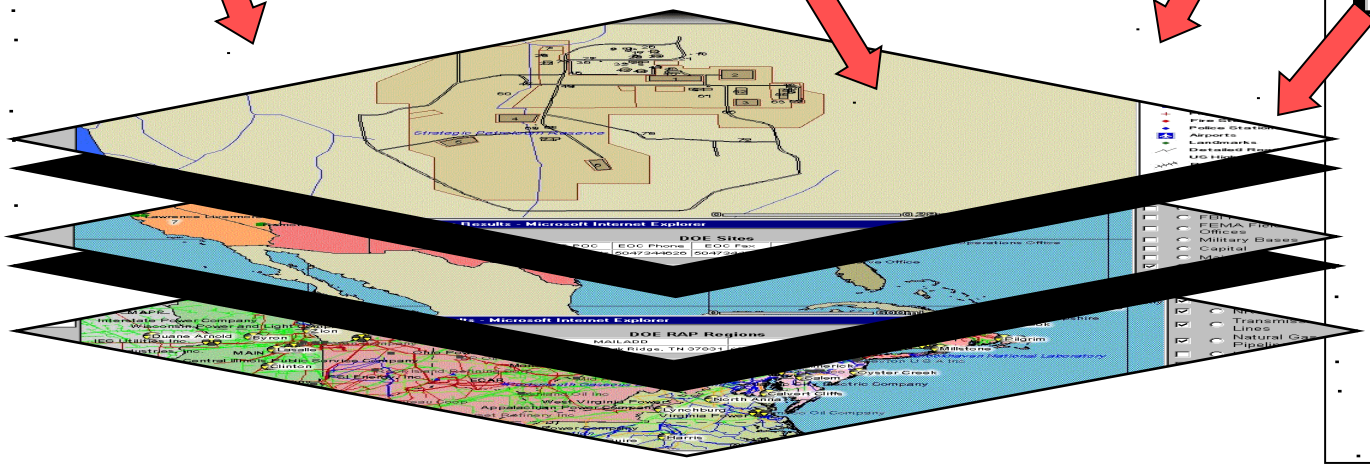
DoD Integration Support

Requirements ***Asset Information***

Mission Requirements

Infrastructure Intra and Interdependencies

Asset Vulnerabilities



Infrastructure Data:

- Commercial
-Installation
- Other DoD
- Foreign
- Other Governmental

DoD's CIP Phases:

Analysis & Assessment | Remediation | Monitoring & Reporting | Mitigation | Response | Reconstitution

Existing Authorities

- Title 10 USC (Active Component)
- Title 32 USC (Reserve and NG)
- Stafford Act (Federal Response Plan)
- PL 84-99 (US Army Corps of Engineers)

Leveraging Existing Authorities - Not Creating a

Current Public Works Sector DCIP Responsibilities

OUSD (AT&L)
- Oversight
- Policy

FACILITATE

SERVICES
- Planning/ Analysis
- Service Specific Policy

DUSD (I&E)
("*Sector*" PSA)
- Oversight
- Policy

USACE - LCA
- Planning
- Policy Development
- Analysis
- Implementation

FACILITATE

COMBATANT COMMANDS
-War Fighter
- Execution

INSTALLATIONS (Asset Owners)

USACE DISTRICTS (Asset Owners)

PW DI Sector Facilitates to go beyond traditional Service stovepipe

Current Public Works Sector Goals

(Identified in FY03)

			STATUS
1		Each Service and Defense Agency has a Point of Contact to actively work CIP Public Works issues within their organizations	✓
2		Establish a common methodology of the identification of Public Works Assets	✓
3		Facilitate partnerships between the Services, their installations, USACE, commercial sector and other Defense Infrastructures to share Public Works data among themselves to assist in the identification of their asset and their dependencies	✓
4		Facilitate Establishing the DoD CIP Program at Installation Level	✓
	4.1	Assist ASD(HD) in CIP Program Development at the Installations similar to that of AT/FP	✓
	4.2	Facilitate establishing the DoD CIP Program through the Services to the Installation Level	✓
	4.3	Assist in defining the Installation's Public Works/(Civil Engineering) Directorate's roles and responsibilities for DoD CIP	✓
5		Identify a prioritized list of Public Works capability deficiences that support DoD missions and requires priority DoD funding	✓
6		Promote access to CIP Automated Applications and tools for the Defense Infrastructure Sectors, Services, and Installations to view PW assets and the dependencies upon them, and the importance of these assets in supporting DoD Missions.	✓
7		Use existing Authorities and associated Service/USACE policies, procedures, tools to imbed Infrastructure assurance into the fabric of Public Works Planning, and operations.	✓

Current Public Works Sector Initiatives

- **DoD Level CIP Support**
  - Critical Infrastructure Protection Integration Staff (CIPIS)
    - CIP policy development and coordination of execution
    - Identify PW assets for the DoD Data Calls
- **Develop Geospatial (GIS) Data Sharing Protocols**
  - Homeland Infrastructure Foundation Level Database (HIFLD) Mo
    - USACE Civil Works assets through CORPMAP gives opportunities to identify National infrastructures (i.e. locks/dams/waterways); leverage Service GIS data-sharing
  - Build GIS Data Sharing Between DPO-MA and the MILDEPS
  - Leverage Defense Installation, Spatial Data Infrastructure (DISD

Key Component: COMPLIANCE WITH FEDERAL GEOSPATIAL AND FACILITY MGT ST

- **Vulnerability Study Standardization and Sharing**
  - Vulnerability Assessment Working Group
  - Full Spectrum Integrated Vulnerability Assessment (FSIVA) Program
    Concept of Operations (CONOPS) and Standards Working Group Sessions

Current Public Works Sector Initiatives

- **Capitalize on the USACE Incident Reporting System (IRS) for monitoring**
  - **Developing a system to collect, process and disseminate near real-time reporting of information, ranging from criminal to suspicious activities. Currently fielded on the USACE ENGLINK system (used by DHS, DIA,USCG, NORTHCOM, CID and others)**
- **Leveraging the Services' Existing Data and GIS to Improve the Identification and Visualization of Assets that Support Specific Missions**
  - **Developing Prototype DoD CIP Common Environment to define critical Geo-spatial Information that must be shared at all echelons, define Installation, Service Combatant Command and DoD**
    - **Prototype to show mission dependencies on Public Works assets using the Real Property Inventory (RPI), GIS, and Installation Status Report (ISR) data.**
    - **Prototype to illustrate the fusion of above data sources,**

Current Public Works Sector Initiatives

- **Working with the DA (J34) to Map Assets to Their Balanced Scorecard and Identify Dependencies**
  - **Working with the USACE Civil Works to identify GIS data for the hydrogenation facilities, dams, locks, and port areas USACE is responsible for dredging and analyze against the Army's Mission Map.**

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Future Thrusts

oD Integration Support

- Work closely with and develop a Support Charter with our CIP Sector Principal Staff Assistant OUSD(AT&L)
- More engagement with National Providers of Public Works support to build CIP focus in providing services to DoD. (i.e. Energy, EPA, etc.)
- Provide engagement with Professional Societies to address Infrastructure Assurance in Public Works Practices
- Imbed CIP concerns into DoD Activities practices/training etc.
- Enhanced support to other Sectors/Combatant Commands on inter-connectivity of Public Works to other Sectors/Command needs.

- Challenges:
  - Ensuring infrastructure assurance is considered at all phases of planning, programming and management of DoD Bases and installations.
  - Funding /resources for full implementation

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Conclusion

- The Public Works DI Sector's infrastructure backbone is a critical component for DoD to meet its mission requirements. The Sector has a critical role in that all the other Sectors require Public Works to support their needs.

- The USACE, as the Public Works DI Sector Lead, has the unique capacity, using the existing governing authorities, to bring together the Services and their installations, Civil Works and Commercial entities to enhance the Defense CIP capabilities and to define roles and responsibilities.

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(Key Personnel)

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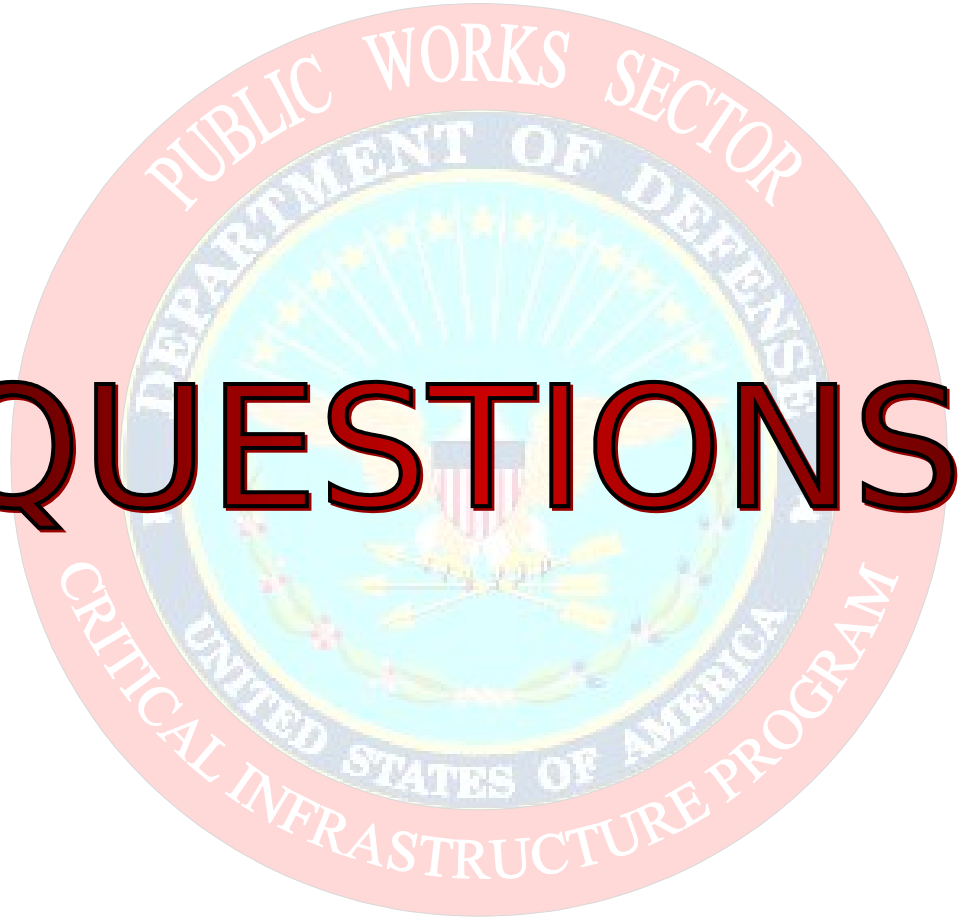
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QUESTIONS?